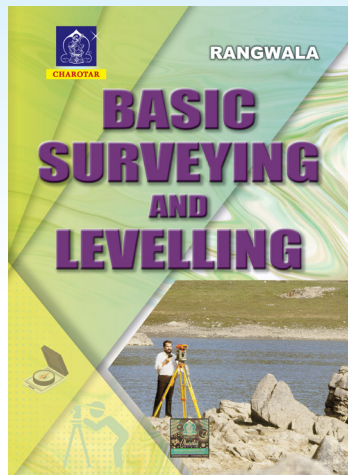


BASIC SURVEYING AND LEVELLING



By
Rangwala

REVISED
& ENLARGED

Edition : 8th Edition : 2024
ISBN : 9789385039584
Binding : Paperback
Pages : 384 + 16 = 400
Size (mm) : 235 × 15 × 170
Weight : 500 g



₹ 500.00 BUY

ABOUT THE BOOK

This Eighth revised and enlarged edition provides an up-to-date knowledge of the *basic principles of Surveying and Levelling*. The subject matter is canvassed along with theory, variety of examples, various types of survey techniques; survey instruments used in the field; measurement of distances, both vertical and horizontal; the direction of lines or angles between the lines, where as various levelling instruments, principles, techniques, methods applied in levelling are given in this text book. The subject matter is expressed in a simple language and practical manner. The treatment is clear, methodical as well as interesting and easy to follow.

From the earlier seventh edition, the single volume is now split into two separate independent books:

Book I : Basic Surveying and Levelling

Book II : Advance Surveying and Levelling.

This division has been made to better cater to the diverse needs of students, professionals, and educators in the field of civil engineering, land surveying, and related disciplines.

This *Basic Surveying and levelling* is arranged in the chapters like: Introduction, Scales, Linear measurements of distances, Chain Surveying and Ranging, Cross staff chain Surveying and Instruments, Compass Survey, Levelling, Permanent adjustments of Levels, Contouring, Plane Table Survey, Computation of Areas, Computation of Volumes, Minor Instruments, Global positioning system (G.P.S.) and Geographic information system (G.I.S.), Appendix I contains 170 *Multiple Choice Questions* and Appendix II showing *Abbreviated Terms* used in this book are given at the end of the book.

The above chapters now contains:

- * 254 Self-explanatory and neatly drawn sketches
- * 179 Solved problems
- * 47 Useful tables
- * 307 Questions at the end of the chapters.

It is hoped that the book in the present form would satisfy the need of the Engineering students preparing for Degree Examinations of all the Indian Universities, Diploma Examinations conducted by various Boards of Technical Education, Certificate Courses as well as for the A.M.I.E., U.P.S.C., G.A.T.E., I.E.S. and other similar competitive and professional examinations. It should also prove of interest to the practising professionals.

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